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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/896,503	06/29/2001	Lawrence J. Ronk	T1-30890	9240
23494 759	90 02/24/2005		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED			PATEL, KANJIBHAI B	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT	PAPER NUMBER
			2625	
		DATE MAILED: 02/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(e)				
		Applicant(s)				
Office Action Summary	09/896,503	RONK ET AL.				
omeo Accion Gammary	Examiner	Art Unit				
The MAIL INC DATE of this communication and	Kanji Patel	2625				
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet with	tne correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period was reply received by the office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply within the statutory minimum of thirty (3 will apply and will expire SIX (6) MONTH, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 O	ctober 2004.	,				
	action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) 7 is/are objected to. 8) Claim(s) are subject to restriction and/or 						
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>10/8/04</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	s have been received. s have been received in App ity documents have been re (PCT Rule 17.2(a)).	lication No ceived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Sum	mary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		lail Date mal Patent Application (PTO-152)				

Application/Control Number: 09/896,503

Art Unit: 2625

Response to Amendment

1. Applicant's amendment filed on 10/8/04 has been entered.

Formal drawings filed on 10/8/04 have been approved by the examiner.

Response to Arguments

2. Applicant's arguments, see page 4, filed 10/8/04, with respect to the rejection(s) of claim(s) 1-4 under 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Sacki (US 5,969,772).

Also the indicated allowability of claims 5-7are withdrawn in view of the newly discovered reference to Smith (US 6,694,311 B1). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by Sacki (US 5,969,772).

For claim 1, Sacki discloses a method for video object feature data generation (figures 1-2), comprising:

- (a) extracting a first set of features (column 2, lines 8-9; column 3, lines 23-54; step 33 in figure 1 detects a set of key frames 1 and 2 providing a set of features) from a moving object (see column 2, lines 17-22) detected in a sequence of images;
- (b) extracting a sequence of grid blocks (column 2, lines 9-11; block divide 51 in figure 2 provides grid blocks for detection of motion vector of the moving object) corresponding to motion of said object in said sequence of images;
- (c) storing said first set of features and said sequence of grid blocks (key memory 35 and motion vector memory 43 and region memory 39 in figure 1 provides a storage).

For claim 2, Sacki discloses the method wherein step (a) includes extracting features in every image in said sequence containing said object (step ST7 in figure 4; step S25 in figure 6);

For claim 3, Sacki discloses the method further comprising: extracting features and associating said grid-block extracted features with said grid block sequence images (figure 4).

For claim 4, Sacki discloses the method wherein said first set of extracted features includes a color histogram (57 in figure 2; column 3, lines 26-35).

Claims 5-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Smith (US 6,694,311 B1).

For claim 5, Smith discloses a method of searching for a video object (figures 1-2), comprising:

(a) providing a database of feature vectors of video objects (106 and 210 in figure 1-2);

- (b) providing a target feature vector (216 provides a target feature vector);
- (c) comparing said target feature vector to each feature vector of said database (block 224);
- (d) ranking (226) said feature vectors of said database according to the results of step (c); and
- (e) finding video objects by an association of video objects with said feature vectors of said database together with the results of step (d) 228).

For claim 6, Smith discloses the method wherein said feature vectors of said database include both path-dependent and path-independent features extracted from video objects moving in sequences of images (207).

Allowable Subject Matter

4. Claim 7 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior art on record fails to teach or suggest, alone or in combination for pathdependent features for a video object include a sequence of grid blocks traversed by said video object together with averages of features extracted from said video object when said video object was located in a corresponding grid block.

Other prior art cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Moghaddam et al. (US 6,584,221 B1) disclose a methof for image retrieval with multiple regions of interest.

Ferrell et al. (US 6,751,343 B1) disclose a method for indexing and retrieving manufacturing specific digital imaginary based on image content.

Application/Control Number: 09/896,503

Art Unit: 2625

Contact Information

Page 6

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kanji Patel whose telephone number is (703) 305-4011. The examiner can normally be reached on Monday to Thursday from 8:00 a.m. to 6:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta, can be reached on (703) 308-5246. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kanji Patel Art Unit 2625 2/22/05

> KANJIBHAI PATEL PRIMARY EXAMINER